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VALENTA, Rudolf et al.
<120> NON-ANAPHYLACTIC FORMS OF GRASS POLLEN PH1 P 6 ALLERGEN AND THEIR USE
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Lys Tyr Lys Thr
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Val Leu Gly Leu Ala Thr Ser Pro Thr Ala Glu Gly Gly Lys Ala Thr
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Thr Glu Glu Gln Lys Leu Ile Glu Asp Val Asn Ala Ser Phe Arg Ala
                           40
Ala Met Ala Thr Thr Ala Asn Val Pro Pro Ala Asp Lys Tyr Lys Thr
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Phe Glu Ala Ala Phe Thr Val Ser Ser Lys Arg Asn Leu Ala Asp Ala 65 70 75 80

Val Ser Lys Ala Pro Gln Leu Val Pro Lys Leu Asp Glu Val Tyr Asn 85 90 95

Ala Ala Tyr Asn Ala Ala Asp His Ala Ala Pro Glu Asp Lys Tyr Glu 100 105 110

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Pro Glu Val His Ala Val Lys Pro Gly Ala 130 135

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| gacgccgttt | caaaggcgcc | ccagctggtc | cccaagctcg | atgaagtcta | caacgccgcc | 120 |
| tacaatgctg | ccgatcatgc | cgccccagaa | gacaagtatg | aagccttcgt | ccttcacttt | 180 |
| teegaggete | tccacatcat | cgccggtacc | cccgaggtcc | acgctgtcaa | gcccggcgcg | 240 |
| tagttgttca | gcacggtcaa | gatccttgac | agcgtcgctg | ccaccggcgc | tgcagccaac | 300 |
| actgccagtg | gctaaaaaat | tcgactagct | ccttcataca | atgaatacac | atgtatcatt | 360 |
| caaacatact | actgtacagt | atgtgcatga | cctagcggcg | agcattttt | ttatgattaa | 420 |
| tcttttatac | atgggcgtga | tcgagcgtgt | gcatatgtgt | aataattaat | ttttattt | 480 |
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| aaaaaaaaa | aaaaaaaaa | aaaaaaaaaa | aa | | | 572 |
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| | | cagcgtcgct | | | | 240 |
| | | tccttcatac | | | | 300 |
| | | acctagcggc | | | | 360 |
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120

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| gccggtaccc | ccgaggtcca | cgctgtcaag | cccggcgcgt | agttgttcag | cacggtcaag | 180 |
|------------|------------|------------|------------|------------|------------|-----|
| atccttgaca | gcgtcgctgc | caccggcgct | gcagccaaca | ctgccagtgg | ctaaaaaatt | 240 |
| cgactagctc | cttcatacaa | tgaatacaca | tgtatcattc | aaacatacta | ctgtacagta | 300 |
| tgtgcatgac | ctagcggcga | gcatttttt | tatgattaat | cttttataca | tgggcgtgat | 360 |
| cgagcgtgtg | catatgtgta | ataattaatt | ttttattttg | atttgaaatt | gtaatcctga | 420 |
| taagaaatgc | gattaagtcc | atttatgaaa | tatagatggt | ctgtcgttat | ttaaaaaaaa | 480 |
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Thr Glu Glu Gln Lys Leu Ile Glu Asp Ile Asn Ala Ser Phe Arg Ala 35 40 45

Ala Met Ala Thr Thr Ala Asn Val Pro Pro Ala Asp Lys Tyr Lys Thr 50 60

Phe Glu Ala Ala Phe Thr Val Ser Ser Lys Arg Asn Leu Ala Asp Ala 65 70 75 80

Val Ser Lys Ala Pro Gln Leu Val Pro Lys Leu Asp Glu Val Tyr Asn 85 90 95

Ala Ala Tyr Asn Ala Ala Asp His Ala Ala Pro Glu Asp Lys Tyr Glu 100 105 110

Ala Phe Val Leu His Phe Ser Glu Ala Leu His Ile Ile Ala Gly Thr 115 120 125

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Ala Met Ala Thr Thr Ala Asn Val Pro Pro Ala Asp Lys Tyr Lys Thr 50 55 60

Phe Glu Ala Ala Phe Thr Val Ser Ser Lys Arg Asn Leu Ala Asp Ala 65 70 75 80

Val Ser Lys Ala Pro Gln Leu Val Pro Lys Leu Asp Glu Val Tyr Asn 85 90 95

Ala Ala Tyr Asn Ala Ala Asp His Ala Ala Pro Glu Asp Lys Tyr Glu 100 105 110

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Leu Glu Ala Ala Phe Thr Val Ser Ser Lys Arg Asn Leu Ala Asp Ala 35 40 45

Val Ser Lys Ala Pro Gln Leu Val Pro Lys Leu Asp Glu Val Tyr Asn 50 55 60

Ala Ala Tyr Asn Ala Ala Asp His Ala Ala Pro Glu Asp Lys Tyr Glu 65 70 75 80

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Pro Glu Val His Ala Val Lys Pro Gly Ala 100 105

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<211> 80

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Arg Asn Leu Ala Asp Ala Val Ser Lys Ala Pro Gln Leu Val Pro Lys
20 25 30

Leu Asp Glu Val Tyr Asn Ala Ala Tyr Asn Ala Ala Asp His Ala Ala 35 40 45

Pro Glu Asp Lys Tyr Glu Ala Phe Val Leu His Phe Ser Glu Ala Leu 50 55 60

His Ile Ile Ala Gly Thr Pro Glu Val His Ala Val Lys Pro Gly Ala 65 70 75 80

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Ala Tyr Asn Ala Ala Asp His Ala Ala Pro Glu Asp Lys Tyr Glu Ala 20 25 30

Phe Val Leu His Phe Ser Glu Ala Leu His Ile Ile Ala Gly Thr Pro 35 40 45

Glu Val His Ala Val Lys Pro Gly Ala 50 55

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<213> Phleum pratense

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Val Lys Pro Glÿ Ala 50

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35 40 45

Ala Met Ala Thr Thr Ala Asn Val Pro 50